AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-49. (Cancelled).

50. (Currently amended) A system for performing fluid administration on a patient comprising:

- a single liquid pump ~~(1)~~,
- a liquid distribution system ~~(2)~~ connected to said pump ~~(1)~~ in such a way that liquid can flow from the liquid distribution system ~~(2)~~ to the pump ~~(1)~~ via a pump enter line ~~(56)~~ and vice versa via a pump exit line ~~(57)~~,
- liquid supply means ~~(3)~~ for supplying liquid to a patient ~~(4)~~ via said liquid distribution system ~~(2)~~ and said pump ~~(1)~~,
- a patient conduit ~~(5)~~ adapted for connecting said liquid distribution system ~~(2)~~ to a patient ~~(4)~~,
- a drain collector ~~(6)~~,

wherein said liquid pump ~~(1)~~ is unidirectional and said liquid distribution system ~~(2)~~ comprises switching means ~~such as~~comprising valves designed to alternatively connect the pump enter line ~~(56)~~ with the supply means ~~(3)~~ or with the patient conduit ~~(5)~~, said system further comprising two distinct lines, namely:

- a first line including successively said liquid supply means ~~(3)~~, said liquid distribution system ~~(2)~~, said liquid pump ~~(1)~~, said liquid distribution system ~~(2)~~ and said patient conduit ~~(5)~~, and

- a second line including successively said patient conduit ~~(5)~~, said liquid distribution system ~~(2)~~, said liquid pump ~~(1)~~, said liquid distribution system ~~(2)~~ and said drain collector ~~(6)~~.

51. (Currently amended) A system according to claim 50 wherein the liquid pump ~~(1)~~ is a peristaltic pump.

52. (Previously presented) A system according to claim 51 wherein the peristaltic pump is rotatable.

53. (Currently amended) A system according to claim 50 wherein said liquid distribution system ~~(2)~~ comprises two distinct hub chambers ~~(7, 8)~~, the first hub chamber ~~(7)~~ including at least one liquid supply port with dedicated valve means ~~(9)~~, one patient port with dedicated valve means ~~(10)~~ and one pump inlet ~~(26)~~, the second hub chamber ~~(8)~~ including at least, one patient port ~~(18)~~ or warmer port ~~(16)~~ with dedicated valve means and one pump outlet ~~(27)~~, said system further comprising control means arranged to close said patient port ~~(10)~~ of the first hub chamber ~~(7)~~ when said liquid supply port ~~(9)~~ is open and vice versa.

54. (Currently amended) A system according to claim 53 wherein said second hub chamber ~~(8)~~ further includes at least one drain port with dedicated valve means ~~(11)~~, said control means being also arranged to close said patient port ~~(18)~~ of the second hub chamber ~~(8)~~ when said drain port ~~(11)~~ is open and vice versa.

55. (Currently amended) A system according to claim 54 wherein said liquid distribution system ~~(2)~~ only includes two hub chambers ~~(7, 8)~~.

56. (Currently amended) A system according to claim 50 further comprising a warmer system ~~(28)~~, a cavity ~~(17)~~ including a warmer port ~~(19)~~ and a patient port ~~(16)~~, said patient port ~~(18)~~ of the second hub chamber ~~(8)~~ being connected to said warmer port ~~(19)~~ via said warmer system ~~(28)~~.

57. (Currently amended) A system according to claim 53 wherein said first hub chamber ~~(7)~~ includes several liquid supply ports with respective valve means ~~(9)~~.

58. (Currently amended) A system according to claim 57 wherein said liquid supply ports ~~(9)~~ are connected to respective liquid supply means having each a different kind of liquid.

59. (Currently amended) A system according to claim 50 wherein said liquid pump ~~(1)~~ is composed of a tubing and rolling surface on which the tubing is compressed once the cartridge is inserted into a pumping device containing rollers.

60. (Currently amended) A system according to claim 50 wherein said liquid pump ~~(1)~~ and said liquid distribution system ~~(2)~~ are fixed together to form a single cartridge.

61. (Currently amended) A system according to claim 60 wherein said liquid pump ~~(1)~~ is fixed to said liquid distribution system ~~(2)~~ by vibration attenuation means in order to minimize the vibration on the liquid distribution system ~~(2)~~ when the pump is operating.

62. (Previously presented) A system according to claim 50 wherein all hub chambers, including ports, are made within one single part.

63. (Previously presented) A system according to claim 62 wherein said single part is an injected part of plastic material.

64. (Currently amended) A system according to claim 50 wherein each hub chamber ~~(7, 8)~~ is closed with an upper wall made of a flexible membrane ~~(13)~~, said membrane including valve elements ~~(39)~~ situated above each of said port or port with valve means, said valve elements ~~(39)~~ being designed to close said port or port when the membrane ~~(13)~~ moves downwardly.

65. (Previously presented) A system according to claim 50 wherein said liquid distribution system includes liquid tight joints arranged in such a manner that they allow a liquid tight connection between said liquid distribution system and a membrane situated on it.

66. (Previously presented) A system according to claim 50 wherein said liquid distribution system includes an air sensor situated on the patient conduit side.

67. (Previously presented) A system according to claim 50 comprising a cartridge loading mechanism which allows a tight connection between the membrane and the valves and the liquid distribution system.

68. (Currently amended) A liquid distribution system ~~(2)~~ for a system performing fluid administration on a patient as defined in any one of the previous claims.

69. (Previously presented) A pressure sensor for a system for performing fluid administration on a patient as defined in claim 50.

70. (Currently amended) A system according to claim 50 further comprising a window for detecting correct positioning of a pump flexible ~~the~~ tube.